

CLAIMS

Having thus described the aforementioned invention, we claim:

1 1. A heat therapy blanket for communicating heated air toward a
2 patient to prevent or treat hypothermia, said heat therapy blanket
3 comprising:

4 a first sheet defining first and second sides and proximal and distal
5 ends;

6 a second sheet secured to said first sheet at a plurality of securement
7 regions, said plurality of securement regions being configured to define a
8 supply manifold, at least one supply duct, a return manifold, and at least
9 one return duct, said second sheet extending away from each of said first
10 and second sides and said proximal and distal end of said first sheet to
11 define a skirt for draping over the patient to define a discrete volume of air
12 under said heat therapy blanket and surrounding the patient whereby a
13 substantial portion of the heated air communicated toward the patient is
14 contained in said discrete volume of air;

15 a supply inlet carried by said first sheet and adapted to releasably
16 connect a supply hose to said supply manifold;

17 a return outlet carried by said first sheet and adapted to releasably
18 connect a return hose to said return duct, whereby heated air is introduced
19 into said supply manifold via the supply hose, through said at least one
20 supply duct, through said return manifold, through said at least one return
21 duct, and through said outlet hose; and

22 a heat source for collecting, heating and directing ambient air toward
23 the patient through said second sheet.

1 2. The heat therapy blanket of Claim 1 wherein said plurality of
2 securement regions includes:

3 a first securement region being defined about a perimeter of said first
4 sheet, said first securement region including first and second longitudinal

5 regions disposed along opposing sides of said first sheet and first and
6 second lateral regions disposed at a proximal end and a distal end of said
7 first sheet, respectively, each of said longitudinal regions and said lateral
8 regions being connected in an end-to-end fashion;

9 a second securement region including third and fourth longitudinal
10 regions and a third lateral region, said third and fourth longitudinal regions
11 being disposed between said first and second longitudinal regions of said
12 first securement region, said third lateral region being positioned in end-to-
13 end fashion at a proximal end of said third and fourth longitudinal regions,
14 said return duct being defined between said first and third longitudinal
15 regions, said second and fourth longitudinal regions, and said first and
16 third lateral regions; and

17 a third securement region including at least one fifth longitudinal
18 region defined between said third and fourth longitudinal regions defined by
19 said second securement region, said supply manifold being defined between
20 said third lateral region of said second securement region and a proximal
21 end of said at least one fifth longitudinal region, said at least one supply
22 duct being defined between successive pairs of said third, fourth and fifth
23 longitudinal regions, and said return manifold being defined between a
24 distal end of said third, fourth and fifth longitudinal regions and said
25 second lateral region.

1 3. The heat therapy blanket of Claim 1 further comprising a
2 humidifier in communication with said heat source for controlling the
3 moisture in air being heated and directed through said second sheet.

1 4. The heat therapy blanket of Claim 1 wherein said first sheet is
2 fabricated from an air-impermeable material whereby heated air is
3 substantially prevented from escaping to the surrounding environment.

1 5. The heat therapy blanket of Claim 1 wherein said second sheet
2 is fabricated from an air-impermeable material, said second sheet defining a
3 plurality of openings for communicating heated air toward the patient.

1 6. The heat therapy blanket of Claim 1 wherein said second sheet
2 is fabricated from an air-permeable material whereby heated air is
3 communicated through said second sheet toward the patient.

1 7. A heat therapy blanket for communicating heated air toward a
2 patient to prevent or treat hypothermia, said heat therapy blanket
3 comprising:

4 a first sheet defining first and second sides and proximal and distal
5 ends, said first sheet being fabricated from an air-impermeable material
6 whereby heated air is substantially prevented from escaping to the
7 surrounding environment;

8 a second sheet secured to said first sheet at a plurality of securement
9 regions, said plurality of securement regions being configured to define a
10 supply manifold, at least one supply duct, a return manifold, and at least
11 one return duct, said second sheet extending away from each of said first
12 and second sides and said proximal and distal end of said first sheet to
13 define a skirt for draping over the patient to define a discrete volume of air
14 under said heat therapy blanket and surrounding the patient whereby a
15 substantial portion of the heated air communicated toward the patient is
16 contained in said discrete volume of air, said plurality of securement regions
17 including:

18 a first securement region being defined about a perimeter of
19 said first sheet, said first securement region including first and
20 second longitudinal regions disposed along opposing sides of said first
21 sheet and first and second lateral regions disposed at a proximal end
22 and a distal end of said first sheet, respectively, each of said

23 longitudinal regions and said lateral regions being connected in an
24 end-to-end fashion;

25 a second securement region including third and fourth
26 longitudinal regions and a third lateral region, said third and fourth
27 longitudinal regions being disposed between said first and second
28 longitudinal regions of said first securement region, said third lateral
29 region being positioned in end-to-end fashion at a proximal end of
30 said third and fourth longitudinal regions, said return duct being
31 defined between said first and third longitudinal regions, said second
32 and fourth longitudinal regions, and said first and third lateral
33 regions; and

34 a third securement region including at least one fifth
35 longitudinal region defined between said third and fourth longitudinal
36 regions defined by said second securement region, said supply
37 manifold being defined between said third lateral region of said
38 second securement region and a proximal end of said at least one fifth
39 longitudinal region, said at least one supply duct being defined
40 between successive pairs of said third, fourth and fifth longitudinal
41 regions, and said return manifold being defined between a distal end
42 of said third, fourth and fifth longitudinal regions and said second
43 lateral region;

44 a supply inlet carried by said first sheet and adapted to releasably
45 connect a supply hose to said supply manifold;

46 a return outlet carried by said first sheet and adapted to releasably
47 connect a return hose to said return duct, whereby heated air is introduced
48 into said supply manifold via the supply hose, through said at least one
49 supply duct, through said return manifold, through said at least one return
50 duct, and through said outlet hose; and

51 a heat source for collecting, heating and directing ambient air toward
52 the patient through said second sheet.

1 8. The heat therapy blanket of Claim 7 further comprising a
2 humidifier in communication with said heat source for controlling the
3 moisture in air being heated and directed through said second sheet.

1 9. The heat therapy blanket of Claim 7 wherein said second sheet
2 is fabricated from an air-impermeable material, said second sheet defining a
3 plurality of openings for communicating heated air toward the patient.

1 10. The heat therapy blanket of Claim 7 wherein said second sheet
2 is fabricated from an air-permeable material whereby heated air is
3 communicated through said second sheet toward the patient.